## This Page Is Inserted by IFW Operations and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

1635

```
RAW SEQUENCE LISTING
                                                               DATE: 11/27/2000
                      PATENT APPLICATION: US/09/496,231A
                                                               TIME: 17:39:41
                      Input Set : A:\PTO.txt
                     Output Set: N:\CRF3\11272000\I496231A.raw
      4 <110> APPLICANT: Hubbell, Jeffrey A.
              Elbert, Donald
Lutolf, Matthias
      6
                                                                                         Does Not Comply
              Pratt, Alison
                                                                                   Corrected Diskette Needed
      8
              Schoenmakers, Ronald
              Tirelli. Nicola
     1.0
              Vernon, Brent
     12 <120> TITLE OF INVENTION: BIOMATERIALS FORMED BY NUCLEOPHILIC
             ADDITION REACTION TO CONJUGATED UNSATURATED GROUPS
     16 <130> FILE REFERENCE: 50154/002002
     18 <140> CURRENT APPLICATION NUMBER: 09/496,231A
     19 <141> CURRENT FILING DATE: 2000-02-01
     21 <150> PRIOR APPLICATION NUMBER: 60/118,093
     22 <151> PRIOR FILING DATE: 1999-02-01
     24 <160> NUMBER OF SEQ ID NOS: 74
     26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
ERRORED SEQUENCES
     28 <210> SEQ ID NO: 1
     29 <211> LENGTH: 10
     30 <212> TYPE: PRT
     31 <213> ORGANISM: Artificial Sequence
     33 <220> FEATURE:
     34 <223> OTHER INFORMATION: Based on Homo sapiens
     36 <221> NAME/KEY: VARIANT
     37 <222> LOCATION: (1)...(10)
38 <223> OTHER INFORMATION: Xaa=any amino acid except Crs
40 <400> SEQUENCE: 1
E--> 41 Tyr Cys Xaa Xaa Xaa Xaa Xaa Cys Tyr 5
                                                                                      10
     43 <210> SEQ ID NO: 2
     44 <211> LENGTH: 8
     45 <212> TYPE: PRT
     46 <213> ORGANISM: Artificial Sequence
     48 <220> FEATURE:
     49 <223> OTHER INFORMATION: Based on Homo sapiens
     51 <221> NAME/KEY: VARIANT
     52 <222> LOCATION: (1)...(8)
     53 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
     55 <400> SEQUENCE: 2
E--> 56 Cys Xaa Xaa Xaa Xaa Xaa Cys 1
     58 <210> SEQ ID NO: 3
     59 <211> LENGTH: 6
     60 <212> TYPE: PRT
```

61 <213> ORGANISM: Artificial Sequence

63 <220> FEATURE:

DATE: 11/27/2000

PATENT APPLICATION: US/09/496,231A T1ME: 17:39:41 Input Set : A:\PTO.txt Output Set: N:\CRF3\11272000\1496231A.raw 64 <223> OTHER INFORMATION: Based on Homo sapiens 66 <221> NAME/KEY: VARIANT 67 <222> LOCATION: (1)...(6) 68 <223> OTHER INFORMATION: Xaa=any amino acid except Cys 70 <400> SEQUENCE: 3 E--> 71 Xaa Xaa Xaa Xaa Xaa Xaa I 73 <210> SEQ ID NO: 4 74 <211> LENGTH: 13 75 <212> TYPE: PRT 76 <213> ORGANISM: Artificial Sequence 78 <220> FEATURE: 79 <223> OTHER INFORMATION: Based on Homo sapiens 81 <221> NAME/KEY: VARIANT 82 <222> LOCATION: (1)...(13) 83 <223> OTHER INFORMATION: Xaa=any amino acid except Cys 85 <400> SEQUENCE: 4 86 Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys 1 E--> 87 10 89 <210> SEQ ID NO: 5 90 <211> LENGTH: 7 91 <212> TYPE: PRT 92 <213> ORGANISM: Artificial Sequence 94 <220> FEATURE: 95 <223> OTHER INFORMATION: Based on Homo sapiens 97 <221> NAME/KEY: VARIANT 98 <222> LOCATION: (1)...(7) 99 <223> OTHER INFORMATION: Xaa=any amino acid except Cys 101 <400> SEQUENCE: 5 E--> 102 Cys Xaa Xaa Xaa Xaa Xaa Cys 1 129 <210> SEQ ID NO: 7 130 <211> LENGTH: 5 131 <212> TYPE: PRT 132 <213> ORGANISM: Artificial Sequence 134 <220> FEATURE: 135 <223> OTHER INFORMATION: Based on Homo sapiens 137 <221> NAME/KEY: VARIANT 138 <222> LOCATION: (1)...(5) 139 <223> OTHER INFORMATION: Xaa=any amino acid except Cys or Tyr 141 <400> SEQUENCE: 7 E--> 142 Xaa Xaa Xaa Xaa Xaa 1 144 <210> SEQ ID NO: 8 145 <211> LENGTH: 6 146 <212> TYPE: PRT 147 <213> ORGANISM: Artificial Sequence 149 <220> FEATURE:

150 <223> OTHER INFORMATION: Based on Homo sapiens

152 <400> SEQUENCE: 8 E--> 153 Gly Pro Arg Val Val Glu 1 155 <210> SEQ ID NO: 9

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/496,231A

DATE: 11/27/2000 TIME: 17:39:41

Input Set : A:\PTO.txt

Output Set: N:\CRF3\11272000\1496231A.raw

156 <211> LENGTH: 6 157 <212> TYPE: PRT 158 <213> ORGANISM: Artificial Sequence 160 <220> FEATURE: 161 <223> OTHER INFORMATION: Based on Homo sapiens 163 <400> SEQUENCE: 9 E--> 164 Asn Asn Arg Asp Asn Thr 166 <210> SEQ 1D NO: 10 167 <211> LENGTH: 6 168 <212> TYPE: PRT 169 <213> ORGANISM: Artificial Sequence 171 <220> FEATURE: 172 <223> OTHER INFORMATION: Based on Homo sapiens 174 <400> SEQUENCE: 10 E--> 175 Tyr Asn Arg Val Ser Glu 1 177 <210> SEQ ID NO: 11 178 <211> LENGTH: 6 179 <212> TYPE: PRT 180 <213> ORGANISM: Artificial Sequence 182 <220> FEATURE: 183 <223> OTHER INFORMATION: Based on Homo sapiens 185 <400> SEQUENCE: 11 E--> 186 Gln Met Arg Met Glu Leu 1 188 <210> SEQ ID NO: 12 189 <211> LENGTH: 6 190 <212> TYPE: PRT 191 <213> ORGANISM: Artificial Sequence 193 <220> FEATURE: 194 <223> OTHER INFORMATION: Based on Homo sapiens 196 <400> SEQUENCE: 12 E--> 197 Gly Phe Arg His Arg His 1 199 <210> SEQ ID NO: 13 200 <21.1> LENGTH: 6 201 <212> TYPE: PRT 202 <213> ORGANISM: Artificial Sequence 204 <220> FEATURE: 205 <223> OTHER INFORMATION: Based on Homo sapiens 207 <400> SEQUENCE: 13 E--> 208 Gly Tyr Arg Ala Arg Pro 1 210 <210> SEQ TD NO: 14. 211 <211> LENGTH: 6 212 <212> TYPE: PRT 213 <213> ORGANISM: Artificial Sequence 215 <220> FEATURE: 216 <223> OTHER INFORMATION: Based on Homo sapiens 218 <400> SEQUENCE: 14 218 <400> SEQUENCE: 14 E--> 219 Tyr Gln Lys Asn Asn Lys 1

221 <21.0> SEQ LD NO: 15 222 <21.1> LENGTH: 6 RAW SEQUENCE LISTING DATE: 11/27/2000 PATENT APPLICATION: US/09/496,231A TIME: 17:39:41

Input Set : A:\PTO.txt

Output Set: N:\CRF3\11272000\1496231A.raw

```
223 <212> TYPE: PRT
     224 <213> ORGANISM: Artificial Sequence
     226 <220> FEATURE:
     227 <223> OTHER INFORMATION: Based on Homo sapiens
     229 <400> SEQUENCE: 15
E--> 230 Leu Ile Lys Met Lys Pro 1
     232 <210> SEQ 1D NO: 16
     233 <211> LENGTH: 6
     234 <212> TYPE: PRT
     235 <213> ORGANISM: Artificial Sequence
     237 <220> FEATURE:
     238 <223> OTHER INFORMATION: Based on Homo sapiens
     240 <400> SEQUENCE: 16
E--> 241 Asn Phe Lys Ser Gln Leu 1
     243 <210> SEQ ID NO: 17
     244 <211> LENGTH: 6
     245 <212> TYPE: PRT
     246 <213> ORGANISM: Artificial Sequence
     248 <220> FEATURE:
     249 <223> OTHER INFORMATION: Based on Homo sapiens
     251 <400> SEQUENCE: 17
E--> 252 Glu Trp Lys Ala Leu Thr 1
     254 <210> SEQ ID NO: 18
255 <211> LENGTH: 6
     256 <212> TYPE: PRT
     257 <213> ORGANISM: Artificial Sequence
     259 <220> FEATURE:
     260 <223> OTHER INFORMATION: Based on Homo sapiens
     262 <400> SEQUENCE: 18
E--> 263 Ser Tyr Lys Met Ala Asp 1
     265 <210> SEQ ID NO: 19
266 <211> LENGTH: 6
     267 <212> TYPE: PRT
     268 <213> ORGANISM: Artificial Sequence
     270 <220> FEATURE:
     271 <223> OTHER INFORMATION: Based on Homo sapiens
     273 <400> SEQUENCE: 19
E--> 274 Thr Gln Lys Lys Val Glu
     276 <210> SEQ ID NO: 20
     277 <211> LENGTH: 6
     278 <212> TYPE: PRT
     279 <213> ORGANISM: Artificial Sequence
     281 <220> FEATURE:
     282 <223> OTHER INFORMATION: Based on Homo sapiens
     284 <400> SEQUENCE: 20
E--> 285 Arg Gln Lys Gln Val Lys 1
     300 <210> SEQ ID NO: 22
```

301 <211> LENGTH: 6 302 <212> TYPE: PRT RAW SEQUENCE LISTING DATE: 11/27/2000 PATENT APPLICATION: US/09/496,231A TIME: 17:39:41

Input Set : A:\PTO.txt

Output Set: N:\CRF3\11272000\I496231A.raw

```
303 <213> ORGANISM: Artificial Sequence
     305 <220> FEATURE:
     306 <223> OTHER INFORMATION: Based on Homo sapiens
     308 <400> SEQUENCE: 22
E--> 309 Leu Ile Lys Ala Ile Gln 1
     640 <210> SEQ ID NO: 53
     641 <211> LENGIH: 28
     642 <212> TYPE: PRT
     643 <213> ORGANTSM: Artificial Sequence
     645 <220> FEATURE:
     646 <223> OTHER INFORMATION: Based on Homo sapiens
     648 <400> SEQUENCE: 53
    649 Arg Pro Ser Leu Ala Lys Lys Gln Arg Phe Arg His Arg Asn Arq Lys 1
E--> 650 5
                                              15 Gly Tyr Arg Ser Gln Arg Gly His
                          10
E--> 651 Ser Arg Gly Arg
                                   20
                                                       25
    840 <210> SEQ 1D NO: 69
    841 <211> LENGTH: 156
    842 <212> TYPE: PRT
    843 <213> ORGANISM: Artificial Sequence
    845 <220> FEATURE:
    846 <223> OTHER INFORMATION: Based on Homo sapiens
    848 <400> SEQUENCE: 69
    849 Met Gly Ser Ser His His His His His Ser Ser Gly Leu Val Pro 1
    850 5 10 15 Arg Gly Ser His Met Lys Asp Pro 851 Lys Arg Leu Tyr Arg Ser Arg Lys 20 25
E--> 850 5
E--> 852 30 Leu Pro Val Glu Leu Glu Ser Ser His Pro Ile Phe His Arg Gly
    853 35 40 45 Glu Phe Ser Val Cys Asp
854 Ser Val Ser Val Trp Val Gly Asp Lys Thr 50 55
E--> 853 35
                           Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly Glu
E--> 856 Val65
                             70
                                                            80 Asn Ile Asn
    857 Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys
                                                                         8.5
                95 Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile
Lys 100 105 110 His
E--> 858 90
E--> 859 Asp Ser Lys
                                                  105
    860 Trp Asn Ser Tyr Cys Thr Thr His Thr Phe Val Lys Ala Leu
    861 120 125 Thr Met Asp Gly Lys Gln Ala Ala Trp Arg Phe
862 Ile Arg Ile Asp Thr 130 135 140
E--> 861 120
    863 Ala Cys Val Cys Val Leu Ser Arg Lys Ala Val Arg145
E--> 864 155
    866 <21.0> SEQ ID NO: 70
    867 <211> LENGTH: 429
    868 <212> TYPE: DNA
    869 <213> ORGANISM: Artificial Sequence
    871 <220> FEATURE:
    872 <223> OTHER INFORMATION: Based on Homo sapiens
    874 <400> SEQUENCE: 70
E--> 875 gaattoccat ggcatatgaa gaooogaaao gtotgtacog ttotogtaaa otgooogtgg 🍌 🕼
W--> 876 60aactcgayag etetteecae cegattttee ategtggega gtteteegtg tgtgactetg
W--> 877 120tctgtatggg taggcgataa aaccactgcc actgatatca aaggcaaaga ggtgatggtg
W--> 878 180ctgggagaag taaacattaa caactctgta ttcaaacagt acttcttcga aactaagtgc
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/496,231A

DATE: 11/27/2000 TIME: 17:39:41

Input Set : A:\PTO.txt

Output Set: N:\CRF3\11272000\1496231A.raw

W--> 879 240cgtgacccga acccggtaga ctctgggtgt cgcggcatcg attctaaaca ctggaactct W--> 880 300tactgcacca ctactcacac tttcgttaaa gcgttgacta tggatggtaa acaggctgcc W--> 881 360tggcgtttca tccgtatcga tactgcatgc gtgtgtgtac tgtcccgtaa agctgttcgt

E--> 882 420taaggatcc

429

VERIFICATION SUMMARY DATE: 11/27/2000 PATENT APPLICATION: US/09/496,231A TIME: 17:39:42

Input Set : A:\PTO.txt

Output Set: N:\CRF3\11272000\1496231A.raw

L:41 M:252 E: No. of Seq. differs, <211>LENGTH:Input:10 Found:0 SEQ:1 L:56 H:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:2 L:71 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:3 L:87 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4 L:87 M:252 E: No. of Seq. differs, <211>LENGTH:Input:13 Found:0 SEQ:4
L:102 M:252 E: No. of Seq. differs, <211>LENGTH:Input:7 Found:0 SEQ:5 L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 L:142 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:7 L:153 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:8 L:164 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:9 L:175 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:10 L:186 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:11 L:197 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:12 L:208 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:13 L:219 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:14 L:230 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:15 L:241 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:16 L:252 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:17 L:263 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:18 L:274 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:19 L:285 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:20 L:309 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:22 L:320 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:23 L:331 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:24 L:343 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:25 L:351 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:26 L:359 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:27 L:370 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:28 L:378 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:29 L:386 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:30 L:394 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:31 L:405 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:32 L:416 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:33 L:427 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEO:34 L:438 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:35 L:449 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:36 L:460 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:37 L:471 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:38 L:482 H:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:39 L:493 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:40 L:504 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:41 L:515 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:42 L:526 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:43 L:537 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:44 L:548 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:45 L:559 M:252 E: No. of Seq. differs, <211>LENGTH:Input:10 Found:0 SEQ:46 L:570 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:47 L:581 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:48

VERIFICATION SUMMARY DATE: 11/27/2000
PATENT APPLICATION: US/09/496,231A TIME: 17:39:42

Input Set : A:\PTO.txt

Output Set: N:\CRF3\11272000\1496231A.raw

L:596 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:49 L:615 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:50 L:626 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:51 L:638 M:333 E: Wrong sequence grouping, Amino acids not in groups: L:638 M:252 E: No. of Seq. differs, <211>LENGTH:Input:19 Found:3 SEQ:52 L:650 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:663 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 L:692 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:56 L:726 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:59 L:738 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:60 L:750 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:61 L:765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 L:779 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:63 L:802 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:65 L:827 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:67 L:850 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:852 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:69 L:852 M:333 E: Wrong sequence grouping, Amino acids not in groups! M:332 Repeated in SeqNo=69 L:853 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:855 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:856 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:856 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF TNVALID KEYS:1 L:858 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:875 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:70 L:876 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6 L:877 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70 L:877 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6 L:878 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70 L:878 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6 L:879 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70 L:879 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6 L:880 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70 L:880 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6 L:881 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70 L:881 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6 M:254 Repeated in SeqNo=70 L:882 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3 L:897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71